Re-run



PCT

#15

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/000,004A

DATE: 05/08/2002 TIME: 10:40:08

Input Set : N:\paola\US09000004A.raw
Output Set: N:\CRF3\05082002\I000004A.raw

1 <110> APPLICANT: Tsilibary, Photini-Effie Charonis, Aristidis S. 2 Setty, Suman 3 Mauer, Michael 5 <120> TITLE OF INVENTION: ANALYSIS OF ALPHA INTEGRINS FOR THE DIAGNOSIS OF DIABETIC NEPHROPATHY 6 <130> FILE REFERENCE: 600.314USWO 7 <140> CURRENT APPLICATION NUMBER: US/09/000,004A 8 <141> CURRENT FILING DATE: 2001-06-19 9 <150> PRIOR APPLICATION NUMBER: US 60/001,387 10 <151> PRIOR FILING DATE: 1995-07-21 11 <150> PRIOR APPLICATION NUMBER: US 60/001,861 **ENTERED** 12 <151> PRIOR FILING DATE: 1995-08-03 13 <150> PRIOR APPLICATION NUMBER: US 60/016,700 14 <151> PRIOR FILING DATE: 1996-05-02 15 <150> PRIOR APPLICATION NUMBER: PCT/US96/12067 16 <151> PRIOR FILING DATE: 1996-07-19 17 <160> NUMBER OF SEQ ID NOS: 16 18 <170> SOFTWARE: PatentIn version 3.1 20 <210> SEQ ID NO: 1 21 <211> LENGTH: 3989 22 <212> TYPE: DNA 23 <213> ORGANISM: Rattus 24 <220> FEATURE: 25 <221> NAME/KEY: CDS 26 <222> LOCATION: (420)..(3959) 27 <223> OTHER INFORMATION: 28 <400> SEQUENCE: 1 29 agtatggaga gaaggtcgtt taaaaaggca gatgtccctt taaggttttgc tttgctgctg 60 30 cccgtggact ttagcctaaa cagggtcccg cgaagttggc tttatttgtc catgtctcgg 120 180 31 acacagectg ggtagetgee agtgagattt cagggaegga gegegeaaag gggggggaaa 32 tgtggcaatc catctgggat gtgagacgcg tggagagggc ttagcagcat ttgaccaaaa 240

cacaggaaat cactootoca cagotootgg gogcagcago ggotggggoo actgooggao

acceteggag accaeacgag tgacceagag egeaagtege eagegteeeg gttetgeetg

ttcctgccag ctcctgccca cgaaccggca cgtagctggt tccagcagcc gctccagca

10

atg gtc ccc agg cgt cct gcc agc cta gag gtc act gta gcc tgc ata

Met Val Pro Arg Arg Pro Ala Ser Leu Glu Val Thr Val Ala Cys Ile

tgg ctt ctc acg gtc atc cta ggc ttc tgc gtc tcc ttc aat gtt gat

Trp Leu Leu Thr Val Ile Leu Gly Phe Cys Val Ser Phe Asn Val Asp

gtg aaa aac tca atg agt ttc agt ggc cca gta gag gac atg ttt gga

Val Lys Asn Ser Met Ser Phe Ser Gly Pro Val Glu Asp Met Phe Gly

25

5

33

34

35

36

37 · 38 ·

39

40

41

42

43 44 300

360

419

467

515

563

45								aac									611
46	Tyr		Val	Gln	Gln	Tyr		Asn	Glu	Glu	Gly		Trp	Val	Leu	Ile	
47		50					55					60					
48					_			ccc		_	_			-	_		659
49	_	Ser	Pro	Leu	Val	_	Gln	Pro	Lys	Ala		Thr	GLY	Asp	Val		
50	65					70					75					80	
51								aga									707
52	Lys	Cys	Pro	Val	_	Arg	GLu	Arg	Ala		Pro	Cys	Val	Lys		Asp	
53					85					90					95		
54	_		_			_		ccc		_		_		_	_		755
55	Leu	Pro	Val		Thr	Ser	Ile	Pro		Val	Thr	GLu	IIe	_	GLu	Asn	
56				100					105					110			
57	-							gtc			_			-			803
58	Met	Thr		GLY	Ser	Thr	Leu	Val	Thr	Asn	Pro	Asn	_	GТĀ	Pne	Leu	
59			115					120					125				
60	_	_			_		-	tat	_								851
61	Ala	_	Gly	Pro	Leu	Tyr		Tyr	Arg	Cys	GLY		Leu	His	Tyr	Thr	
62		130					135					140					
63								agt									899
64		Gly	Ile	Cys	Ser		Val	Ser	Pro	Thr		Gln	Val	Val	Asn		
65	145					150					155					160	
66								agc									947
67	Phe	Ala	Pro	Val		Glu	Cys	Ser	Thr		Leu	Asp	Ile	Val		Val	
68					165					170					175		
69	_	_				-		tac			_	-					995
70	Leu	Asp	Gly		Asn	Ser	Ile	Tyr		Trp	Glu	Ser	Val		Ala	Phe	
71				180					185					190			
72								atg									1043
73	Leu	Asn	_	Leu	Leu	Lys	Arg	Met	Asp	He	GLY	Pro		GIn	Thr	GIn	
74			195					200					205				1001
75								gag									1091
76	vaı		тте	vaı	GIn	Tyr		Glu	Asn	vaı	Tnr		GIU	Pne	Asn	Leu	
77		210					215					220					1120
78								gag									1139
79		Lys	Tyr	ser	Ser		GIu	Glu	Vai	Leu		Ата	Ата	Asn	гĀг		
80	225					230			_ 4		235					240	1107
81		_	-					acg	_		_				_		1187
82	GIŸ	Arg	GIn	GLŸ	_	Leu	GIn	Thr	мет		Ата	Leu	GTA	тте		Thr	
83					245					250					255		1025
84	-				-			gaa	_			-				_	1235
85	Ala	Arg	Lys		Ala	Phe	Thr	Glu		Arg	GIY	Ата	Arg		GLY	Val	
86				260					265					270			1002
87								acc									1283
88	гĀг	гÃг		Met	val	тте	val	Thr	Asp	GTĀ	GLU	ser		Asp	asn	туr	
89		_ 4	275					280	.				285	_ 4-4-			1001
90								gac									1331
91	Arg		гÀг	GIN	vaı	тте		Asp	cys	GLU	Asp		ASN	тте	GIN	arg	•
92	4.4.1	290				-4.4	295					300					1 272
93	ttt	tcc	ata	gct	atc	ctt	ggc	cac	tat	aac	agg	ggg	aac	ττα	agc	act	1379



	9 4 95	Phe	Ser	Ile	Ala	Ile	Leu 310	Gly	His	Tyr	Asn	Arg 315	Gly	Asn	Leu	Ser	Thr 320	
	96		aaa	+++	ata	gag		ata	aaa	tca	atc		agc	πασ	CCC	aco		1427
	97	-					-			_		-	Ser			_	-	1427
	98	GIU	цуз	riie		325	Giu	116	цуз	Der	330	пта	Der	Gru	FIU	335	G I,u	
		224	~~~	++0			a+ a	+	~a+	~~~	-	~~~	at a	at a	20+		a++	1475
	99												ctg					1475
	100	гÃг	HIS	Pne			val	. ser	ASP			I Alc	ı ren	vaı			val	
	101				340					345					350			1500
	102																cag	1523
	103	Lys	A La		_	GLu	Arg	l ITe			Leu	ı Git	ı Ala			Asp	Gln	
	104			355					360					365				
	105		_	_				_	_	_		_				_	gct	1571
	106	Ser			Ser	Phe	Glu			Met	. Ser	Glr			Phe	e Ser	Ala	
	107		370					375					380					
	108				_	_		-	_						-		gac	1619
	109	His	Tyr	Ser	Glr	ı Asp	Trp	val	Met	. Leu	ı Gly	7 Ala	ı Val	Gly	Ala	Туг	Asp	
	110	385	j				390)				395	5				400	
	111	tgg	aac	: gga	act	: gtg	gto	: atg	cag	aag	gct	aac	cag	atg	gto	ato	cct	1667
	112	Trp	Asn	Gly	Thr	. Val	. Val	. Met	Gln	Lys	Ala	Asr	ı Gln	Met	. Val	. Ile	Pro	
:	113					405					410)				415	i	
	114	cat	aac	acc	acc	: ttt	caa	act	gag	ccc	geo	aag	, atg	aac	gag	cct	ctg	1715
	115	His	Asn	Thr	Thr	Phe	Glr	Thr	Glu	Pro	Āla	Lys	Met	Asn	Glu	Pro	Leu	
	116				420					425		-			430			
	117	act	tct	tat	tta	aat	tac	aca	ata	aac	tco	r acc	acc	ato	cct	. qqa	gat	1763
	118	_									-	_					Asp	
	119			435		1	-1-		440					445		1		
	120	ato	cto			act	σσο	cad			tac	. aat	cat			. cao	gtc	1811
	121																Val	1011
	122	,	450	_			· • • •	455			-1-		460		4 -1	V	. ,	
	123	αto			. aan	n ato	gao			aac	ato	aac			cao	aca	ctc	1859
	124																Leu	1033
	125	465		. 1 7 1	шуз	, MCC	470	_	, GI	nsi.	1 110	475		. пси	. 011.		480	
	126			727		++			+ = 0	. +++	aat			++=	202	202	att	1907
	127				_							_	_				Ile	1907
	128	GIY	GTĀ	GIU	GIL	485	_	Ser	1 Y 1	FILE	490		. vai	Deu	. 1111	495		
		<i>~</i> ~ ~ <i>~</i>	+.					+ + + +	201				- ata	~+~				1955
	129																CCC	1933
	130	ASP	116	ASP	_	-	ser	TAT	1111	_		L Let	ı Leu	. vaı	_		Pro	
	131				500					505					510			2002
	132	_		_						-	_		_				tac	2003
	133	Met	. Tyr		_	Thr	GIU	Lys			GIN	GLY	гLуs			. vaı	Tyr	
	134			515					520					525				
	135	_			_				_			_	_				att	2051
	136	Ala			Gln	Thr	Arg			Туг	Gln	Met			Glu	Pro	lle	
	137		530					535					540					
	138		_		_	-			_	_	-						gaa	2099
	139	_		Thr	Суз	Cys			Leu	Lys	Asp			Cys	Thr	. TAS	Glu	
	140	545					550					555					560	
	141																gct	2147
:	142	Asn	Lys	Asn	Glu	Pro	Cys	Gly	Ala	Arg	Phe	Gly	Thr	Ala	Ile	Ala	Ala	

1.40										E 7 0					-7-		
143					565		+			570	~~~	~+ ~	~+~		575		2105
144				ctc													2195
145	vaı	глх	Asp	Leu	ASI	vaı	ASP	GTÅ		ASII	ASP	vai	vaı		GIY	Ald	
146		- 4		580					585			_ 4.4.		590			2242
147				gat													2243
148	Pro	ьeu		Asp	Asp	HIS	Ата		Ата	vaı	Tyr	ше		HIS	GIY	ser	
149			595	_ 4				600					605	.			2201
150		-		ata					_		_						2291
151	GTĀ	_	Thr	Ile	Arg	GIU		Tyr	Ата	GIN	Arg		Pro	ser	GTA	GLY	
152		610					615					620					0000
153	_		_	acc	_					-						-	2339
154	_	GTĀ	ьys	Thr	Leu		Pne	Pne	GTĀ	GIn		тте	HIS	GLŸ	Glu		
155	625					630					635					640	0005
156				ggt													2387
157	Asp	Leu	Asn	Gly	_	GTA	ьeu	Thr	Asp		Inr	тте	GТĀ	GTĀ		GIY	
158					645					650					655		0405
159				ctc													2435
160	GLY	Ala	Ala	Leu	Phe	Trp	Ala	Arg	_	val	Ala	Val	Val	_	vaı	Thr	
161				660					665					670			0.400
162	_			gaa								_			_	-	2483
163	Met	Asn		Glu	Pro	Asn	Lys		Asn	He	Gln	Lys	_	Asn	Cys	Arg	
164			675					680					685				
165				aaa													2531
166	Val		Gly	Lys	Glu	Thr		Cys	Ile	Asn	Ala		Met	Cys	Phe	His	
167		690					695					700					0.7.7.0
168				aag													2579
169		Lys	Leu	Lys	Ser	_	Glu	Asp	Ser	Ile	_	Glu	Ala	Asp	Leu		
170	705					710					715					720	0.60
171				acc													2627
172	Tyr	Arg	Val	Thr		Asp	ser	Leu	Arg		ITe	Ser	Arg	Ser		Phe	
173					725					730					735		0.675
174				cag													2675
175	Ser	GIY	Thr	Gln	GIu	Arg	Lys	IIe		Arg	Asn	He	Thr		Arg	Glu	
176				740					745					750		4. 4. 4	0700
177				atc													2723
178	Ser	Glu		Ile	Arg	His	ser		тyr	Met	Leu	Asp		HIS	Asp	Pne	
179			755					760					765				0.771
180				gtg													2771
181	GIn	_	Ser	Val	Arg	Val		Leu	Asp	Phe	Asn		Thr	Asp	Pro	GIU	
182		770					775					780					0010
183				gta													2819
184		_	Pro	Val	Leu	_	Asp	Ala	Leu	Pro		Ser	vaı	HIS	Glu		
185	785					790 ⁻					795			_ , .		800	0065
186				gcc													2867
187	Ile	Pro	Phe	Ala	_	Asp	Cys	GLY	Asn		GLu	Arg	Cys	тте		Asp	
188					805					810					815		
189				aat													2915
190 .	Leu	Thr	Leu	Asn	Val	Ser	Thr	Thr		Lys	Ser	Leu	Leu		Val	Lys	
191				820					825					830			



192		cag															2963
193	Ser	Gln		Asp	Lys	Phe	Asn		Ser	Leu	Thr	Val		Asn	Lys	Gly	
194			835					840					845				
195	-	agt															3011
196	Asp	Ser	Ala	Tyr	Asn	Thr	_	Thr	Val	Val	Gln		Ser	Pro	Asn	Leu	
197		850					855					860					
198		ttt															3059
199	Ile	Phe	Ser	Gly	Ile	Glu	Glu	Ile	Gln	Lys	Asp	Ser	Cys	Glu	Ser		
200	865					870					875					880	
201		aat															3107
202	${\tt Gln}$	Asn	Ile	Thr	Cys	Arg	Val	Gly	Tyr	Pro	Phe	Leu	Arg	Ala	Gly	Glu	
203					885					890					895		
204	acg	gtt	acc	ttc	aaa	ata	ata	ttc	cag	ttt	aac	aca	tcc	cat	ctc	tcg	3155
205	Thr	Val	Thr	Phe	Lys	Ile	Ile	Phe	Gln	Phe	Asn	Thr	Ser	His	Leu	Ser	
206				900					905					910			
207	gaa	aat	gca	atc	att	cac	tta	agt	gca	aca	agt	gac	agt	gag	gag	ccc	3203
208	Glu	Asn	Ala	Ile	Ile	His	Leu	Ser	Ala	Thr	Ser	Asp	Ser	Glu	Glu	Pro	
209			915					920					925				
210	ctg	gaa	tct	ctt	aat	gat	aat	gaa	gta	aat	att	tcc	atc	cca	gta	aaa	3251
211	Leu	Glu	Ser	Leu	Asn	Asp	Asn	Glu	Val	Asn	Ile	Ser	Ile	Pro	Val	Lys	
212		930					935					940					
213	tat	gaa	gtt	gga	ctg	cag	ttt	tac	agt	tct	gcg	agt	gaa	cat	cac	att	3299
214	Tyr	Glu	Val	Gly	Leu	Gln	Phe	Tyr	Ser	Ser	Ala	Ser	Glu	His	His	Ile	
215	945					950					955					960	
216	tca	gtc	gct	gcc	aat	gag	acg	atc	cct	gag	ttt	att	aac	tcc	act	gag	3347
217	Ser	Val	Ala	Ala	Asn	Glu	Thr	Ile	Pro	Glu	Phe	Ile	Asn	Ser	Thr	Glu	
218					965					970					975		
219	gac	att	ggg	aat	gaa	att	aat	gtc	ttc	tat	acg	att	aga	aag	agg	ggg	3395
220	Asp	Ile	Gly	Asn	Glu	Ile	Asn	Val	Phe	Tyr	Thr	Ile	Arg	Lys	Arg	Gly	
221				980					985					990			
222	cat	ttc	cca	atg	cca	gaa	ctt	cag	ct	g tc	a at	t tca	a tte	c c	cc a	at ttg	3443
223	His	Phe	Pro	Met	Pro	Glu	Leu	Gln	Le	u Se	r Il	e Se	r Phe	e P	ro A	sn Leu	
224			995					100	0				10	05			
225	acg	gca	gat	. ggt	: tat	cct	gta	a c	tg t	ac c	ca a	tt g	ga i	tgg	tca	tct	3488
226	Thr	Āla	Asp	Gly	7 Tyr	Pro	va:	l L	eu T	yr P	ro I	le G	Ly '	Гrр	Ser	Ser	
227		1010) _		_		101	15				10	020			•	
228	tca	gat	aat	gto	, aac	: tgt	. aga	a c	ac c	gg a	gc c	tt ga	ag (gac	ccc	ttt	3533
229	Ser	Asp			Asn									Asp	Pro	Phe	
230		1025	;			_	103	30		-		10	35	_			
231	qqc	atc	aac	tct	ggg	aaq	, aaa	a a	tg a	ca a	ta t	cg aa	ag 1	tct	gag	gtt	3578
232		Ile			Gly												
233	-	1040			-	-	104						050				
234	ctc			ı qq	aca	ato	cad	g ga	ac t	qc a	gt a	gt a	eg 1	tgt	gga	gtt	3623
235		Lys															
236		1055					106		-	-			065	-	-		
237	qcc	acc		acc	, tgt	aqo			tt c	ct t	cc q	ac ci	tg a	agt	caa	gtg	3668
238		Thr			Cys												
239		1070			4 -		107			_			080				
240	aat	gtc		cto	cto	cto			aa c	cg a	ct t			aga	gca	cat	3713
		-	-		_	-		-		-				_	-		

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/000,004A

DATE: 05/08/2002 TIME: 10:40:09

Input Set : N:\paola\US09000004A.raw
Output Set: N:\CRF3\05082002\I000004A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/000,004A

DATE: 05/08/2002 TIME: 10:40:09

Input Set : N:\paola\US09000004A.raw

Output Set: N:\CRF3\05082002\1000004A.raw

L:7 $\dot{M}:270$ C: Current Application Number differs, Wrong Format